

## Datasheet: MCA1212A647

<b>Description:</b>	RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647
<b>Specificity:</b>	RAT IgG2a NEGATIVE CONTROL
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Negative/Isotype Control
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			*

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Negative Control		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% sodium azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% bovine serum albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	Human lymphocytes.		

RRID AB\_567361

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**Fusion Partners** Spleen cells from immunized DA rats were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.

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**Specificity** **Rat IgG2a Negative Control antibody** is suitable for the assessment of the level of non-specific binding of rat IgG2a monoclonal antibodies to mouse cells.

Test results indicate Rat IgG2a Negative Control antibody is also suitable for use as a negative control with canine cells.

**N.B.** This antibody recognizes a human cell surface marker, and therefore is not suitable as a negative control in human cells or cell lines.

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**References**

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  2. Guilloteau, L.A. *et al.* (2003) Nramp1 is not a major determinant in the control of *Brucella melitensis* infection in mice. [Infect Immun. 71: 621-8.](#)
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  4. McConnell, M.J. *et al.* (2009) H2-K(b) and H2-D(b) regulate cerebellar long-term depression and limit motor learning. [Proc Natl Acad Sci U S A. 106: 6784-9.](#)
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  7. Park, S.W. *et al.* (2012) A1 adenosine receptor allosteric enhancer PD-81723 protects against renal ischemia-reperfusion injury. [Am J Physiol Renal Physiol. 303: F721-32.](#)
  8. Rabadi, M. *et al.* (2016) Peptidyl arginine deiminase-4-deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. [Am J Physiol Renal Physiol. 311 \(2\): F437-49.](#)
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  10. Han, S.J. *et al.* (2020) Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury. [JCI Insight. 5 \(19\): e139246.](#)
  11. Ono, Y. *et al.* (2018) CD11c+ M1-like macrophages (M $\phi$ s) but not CD206+ M2-like M $\phi$  are involved in folliculogenesis in mice ovary. [Sci Rep. 8 \(1\): 8171.](#)
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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1212A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA6005A647\)](#)

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**Printed on 19 Jan 2024**

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